

any of the sequences shown in SEQ ID Nos. [1-2, 4-5, or 7-8] 1, 3, or 5, 3) a pair of oligonucleotide primers capable of hybridizing to the sequence shown in any one of SEQ ID Nos. [1-2, 4-5, or 7-8] 1, 3, or 5 under high stringency conditions; and 4) a polypeptide with at least 70% sequence homology to any one of the sequences shown in SEQ ID NO: [3, 6 or 9] 2, 4, or 6.

67.(amended) A method of detecting a compound capable of modulating the Ras GTPase activity of SYNGAP, the method comprising the steps of:

- a) transfecting a cells with a reporter gene construct capable of being modulated by Ras-Raf (MAP kinase),
- b) transfecting the cells with a polynucleotide encoding any one of the SYNGAP sequences shown in SEQ ID Nos. [3, 6, or 9] 2, 4, or 6,
- c) contacting the cells with a candidate compound; and
- d) detecting the reporter gene construct as being indicative of the compound capable of modulating the RasGTPase activity of SYNGAP.

IN THE SPECIFICATION

At page 7, line 29, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 8, line 2, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 8, line 12, please delete "SEQ ID NO: 2".

At page 8, line 17 and 18, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 8, line 21, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 10, line 20, please delete "SEQ ID NO. 9" and insert therefor -SEQ ID NO. 6--.

At page 10, line 24, please delete "3, 6, or 8" and insert therefor -2, 4, or 6--.

At page 11, line 18, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 13, line 5, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 15, line 15, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 15, line 18 and 19, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 15, line 25, please delete "SEQ ID NO. 9" and insert therefor -SEQ ID NO. 6--.

At page 17, line 11, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 17, line 12 and 13, delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 17, line 15, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 20, line 21, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 22, line 18, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 22, line 20, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 23, line 4, please delete "SEQ ID NO. 9" and insert therefor -SEQ ID NO. 6--.

At page 23, line 15, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 23, line 24, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 24, line 17, please delete "(SEQ ID NO. 2)".

At page 24, line 18, please delete "(SEQ ID NO. 3)" and insert therefor -(SEQ ID NO. 2)--.

At page 24, line 21, please delete "(SEQ ID NO. 4)" and insert therefor -(SEQ ID NO. 3)--.

At page 24, line 21, please delete "(SEQ ID NO. 5)".

At page 24, line 22, please delete "(SEQ ID NO. 6)" and insert therefor -(SEQ ID NO. 4)--.

At page 24, line 25, please delete "(SEQ ID NO. 7)" and insert therefor -(SEQ ID NO. 5)--.

At page 24, line 25, please delete "(SEQ ID NO. 8)".

At page 24, line 26, please delete "(SEQ ID NO. 9)" and insert therefor -(SEQ ID NO. 6)--.

At page 24, line 26, please delete "(SEQ ID NO. 8A)".

At page 24, line 30, please delete "(SEQ ID NO. 9)" and insert therefor -(SEQ ID NO. 21)--.

At page 25, line 6, please delete "(SEQ ID NO. 10)" and insert therefor -(SEQ ID NO. 7)--.

At page 25, line 7, please delete "(SEQ ID NO. 11)" and insert therefor -(SEQ ID NO. 8)--.

At page 25, line 7, please delete "(SEQ ID NO. 12)" and insert therefor -(SEQ ID NO. 9)--.

At page 25, line 12, please delete "(SEQ ID NO. 13)" and insert therefor -(SEQ ID NO. 10)--.

At page 25, line 13, please delete "(SEQ ID NO. 14)" and insert therefor -(SEQ ID NO. 11)--.

At page 25, line 14, after "P48423);" please insert-(SEQ ID NO. 12)--.

At page 25, line 15, after "P08567)" please insert-(SEQ ID NO. 13)--.

At page 25, line 19, please delete "(SEQ ID NO. 17)" and insert therefor -(SEQ ID NO. 14)--.

At page 25, line 20, please delete "(SEQ ID NO. 18)" and insert therefor -(SEQ ID NO. 15)--.

At page 25, line 21, please delete "(SEQ ID NO. 19)" and insert therefor -(SEQ ID NO. 16)--.

At page 25, line 22, please delete "(SEQ ID NO. 20)" and insert therefor -(SEQ ID NO. 17)--.

At page 36, line 6, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 36, line 7-8, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 36, line 9, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 36, line 10, please delete "SEQ ID NO. 9" and insert therefor -SEQ ID NO. 6--.

At page 36, line 22, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 36, line 24, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 37, line 6, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 37, line 8, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 37, line 12-13, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 39, line 9-10, please delete "1-2, 4-5, or 7-8" and insert therefor -1, 3, or 5--.

At page 40, line 2, please delete "SEQ ID NO. 3" and insert therefor -SEQ ID NO. 2--.

At page 47, line 23, please delete "3, 6, or 9" and insert therefor -2, 4, or 6--.

At page 48, line 28, please delete "SEQ ID NO. 9" and insert therefor -SEQ ID NO. 6--.

At page 50, line 8, please delete "SEQ ID NO. 3" and insert therefor -SEQ ID NO. 2--.

At page 55, line 28, please delete "(SEQ ID NO. 9)" and insert therefor -(SEQ ID NO. 21)--.

At page 56, line 13, please delete "(SEQ ID NO. 22)" and insert therefor -(SEQ ID NO. 18)--.

At page 56, line 14, please delete "(SEQ ID NO. 23)" and insert therefor -(SEQ ID NO. 23)--.

At page 64, line 13-14, please delete "(SEQ ID NO. 21)" and insert therefor -(SEQ ID NO. 20)--.

Please insert the enclosed sequence listing after the specification and renumber the remaining pages of the application accordingly.

REMARKS

Applicants submit herewith a sequence listing in response to the Notice to Comply mailed on June 9, 2000.